Model-Based ... 2011, Homework 4

Turn solutions in by **Tuesday, April 26**. You will need files that are send by email. Please send me an email (bengt@it.uu.se) if you have not received these files.

**Homework**

The consists in completing a model of a set of wireless mobile nodes that should agree on a common meeting place. The setup is described in slides 40 – 42 in the last set of slides by Anton Cervin. You will need the skeleton Simulink/Truetime model `consensus.mdl`, which is helped by the m-functions `initsim.m`, `moteanimation.m` (which can do animation), and `node_init.m`. You should complete the homework by “programming” the mobile nodes in the model `consensus.mdl` using a TrueTime kernel block, which communicates, and produces signals that change its movement, etc. Try to tune the parameter $K$ on slide 41 to get “nice” behavior.